

1652 #17

RECEIVED



OCT 25 2002

TECH CENTER 1600/2900

1600

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/544,525A

DATE: 10/18/2002
 TIME: 10:25:31

Input Set : D:\408.app.txt
 Output Set: N:\CRF4\10182002\I544525A.raw

4 <110> APPLICANT: Luche, Ralf M.
 5 Wei, Bo
 8 <120> TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
 11 <130> FILE REFERENCE: 200125.408
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/544,525A
 14 <141> CURRENT FILING DATE: 2000-04-06
 16 <160> NUMBER OF SEQ ID NOS: 18
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 926
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapien
 25 <400> SEQUENCE: 1
 26 ccccgccgct cctcctccct gtaacatgcc atagtgcgcc tgcgaccaca cggccggggc 60
 27 gctagcggttc gccttcagcc accatgggg aatggatgaa caagatcctg cccggcctgt 120
 28 acatcgccaa cttcaaaagat gcccagagacg cggaacaatt gagcaagaac aaggtgacac 180
 29 atattctgtc tgtccacat agtgcgcaggc ctatgttgg aatggatgaa tacctgtgca 240
 30 tcccgccgccc ggattcacca tctcaaaacc tgacaagaca tttcaaaagaa agtattaaat 300
 31 tcattcacga gtgcggctc cgcgggtgaga gctgcctgtt acactgcctg gccggggct 360
 32 ccaggagcgt gacactgggt atcgcataca tcatgaccgt cactgacttt ggctgggagg 420
 33 atgcccctgca caccgtgcgt gctggggat cctgtccaa ccccaacgtg ggcttccaga 480
 34 gacagctcca ggagttttag aagcatgagg tccatcagta tcggcagtgg ctgaaggaag 540
 35 aatatggaga gagcccttg caggatgcag aagaagccaa aaacattctg gccgctccag 600
 36 gaattctgaa gttctggcc ttcttcgaa gactgtaatg tacctgaagt ttctgaaata 660
 37 ttgcaaaccgc gcagagtttgc ggcgggtgc gccaaaaaaa aaagcaacat agagtttaag 720
 38 tatccagtag tgattttgaa acttgtttt catttgaagc tgaatata cgtatcattg 780
 39 ttatgttga gaactaagga tatttttag caagagaaaa tattttcccc ttatccccac 840
 40 tgctgtggag gtttctgtac ctgcgttgg aatccggga gatccggga gccttgcgc 900
 41 actgccttgtt gggggcttgc ggcgtc 926
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 184
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Homo sapien
 48 <400> SEQUENCE: 2

ENTERED

49 Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly Asn
 50 1 5 10 15
 51 Phe Lys Asp Ala Arg Asp Ala Glu Gln Leu Ser Lys Asn Lys Val Thr
 52 20 25 30
 53 His Ile Leu Ser Val His Asp Ser Ala Arg Pro Met Leu Glu Gly Val
 54 35 40 45
 55 Lys Tyr Leu Cys Ile Pro Ala Ala Asp Ser Pro Ser Gln Asn Leu Thr
 56 50 55 60
 57 Arg His Phe Lys Glu Ser Ile Lys Phe Ile His Glu Cys Arg Leu Arg

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58 65 70 75 80
 59 Gly Glu Ser Cys Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val
 60 85 90 95
 61 Thr Leu Val Ile Ala Tyr Ile Met Thr Val Thr Asp Phe Gly Trp Glu
 62 100 105 110
 63 Asp Ala Leu His Thr Val Arg Ala Gly Arg Ser Cys Ala Asn Pro Asn
 64 115 120 125
 65 Val Gly Phe Gln Arg Gln Leu Gln Glu Phe Glu Lys His Glu Val His
 66 130 135 140
 67 Gln Tyr Arg Gln Trp Leu Lys Glu Glu Tyr Gly Glu Ser Pro Leu Gln
 68 145 150 155 160
 69 Asp Ala Glu Glu Ala Lys Asn Ile Leu Ala Ala Pro Gly Ile Leu Lys
 70 165 170 175
 71 Phe Trp Ala Phe Leu Arg Arg Leu
 72 180
 74 <210> SEQ ID NO: 3
 75 <211> LENGTH: 10
 76 <212> TYPE: PRT
 77 <213> ORGANISM: Homo sapien
 79 <400> SEQUENCE: 3
 80 Val His Cys Leu Ala Gly Val Ser Arg Ser
 81 1 5 10
 83 <210> SEQ ID NO: 4
 84 <211> LENGTH: 23
 85 <212> TYPE: PRT
 86 <213> ORGANISM: Homo sapien
 88 <400> SEQUENCE: 4
 89 Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Gly Thr
 90 1 5 10 15
 91 Asn Ile Leu Ala Tyr Leu Met
 92 20
 94 <210> SEQ ID NO: 5
 95 <211> LENGTH: 24
 96 <212> TYPE: DNA
 97 <213> ORGANISM: Artificial Sequence
 99 <220> FEATURE:
 100 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
 101 DSP-3
 103 <400> SEQUENCE: 5
 104 gacctcatgc ttctcaaact cctg 24
 106 <210> SEQ ID NO: 6
 107 <211> LENGTH: 21
 108 <212> TYPE: DNA
 109 <213> ORGANISM: Artificial Sequence
 111 <220> FEATURE:
 112 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
 113 DSP-3
 115 <400> SEQUENCE: 6
 116 cgatcaccag tgtcacgctc c 21

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119 <211> LENGTH: 26
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
125     DSP-3
127 <400> SEQUENCE: 7
128 cagaatatgt gtcacccgt tcttgc
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 26
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
137     DSP-3
139 <400> SEQUENCE: 8
140 gcaagaacaa ggtgacacat attctg
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 28
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
149     DSP-3
151 <400> SEQUENCE: 9
152 gggaaatggga tgaacaagat cctgcccc
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 37
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
161     DSP-3
163 <400> SEQUENCE: 10
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166 <210> SEQ ID NO: 11
167 <211> LENGTH: 170
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapien
171 <400> SEQUENCE: 11
172 Ser Asp Leu Asp Arg Asp Pro Asn Ser Ala Thr Asp Ser Asp Gly Ser
173 1           5           10          15
174 Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
175          20          25          30
176 Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
177          35          40          45
178 Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
179          50          55          60
  
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180 Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
181 65 70 75 80
182 Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser
183 85 90 95
184 Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys
185 100 105 110
186 Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met
187 115 120 125
188 Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met
189 130 135 140
190 Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu
191 145 150 155 160
192 Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser
193 165 170
195 <210> SEQ ID NO: 12
196 <211> LENGTH: 168
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapien
200 <400> SEQUENCE: 12
201 Asp Arg Glu Leu Pro Ser Ser Ala Thr Glu Ser Asp Gly Ser Pro Val
202 1 5 10 15
203 Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr
204 20 25 30
205 Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr
206 35 40 45
207 Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe
208 50 55 60
209 Glu His Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His
210 65 70 75 80
211 Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser Phe Ile
212 85 90 95
213 Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala
214 100 105 110
215 Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met Gln Lys
216 115 120 125
217 Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys
218 130 135 140
219 Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu Asp Phe
220 145 150 155 160
221 Glu Arg Thr Leu Gly Leu Ser Ser
222 165
224 <210> SEQ ID NO: 13
225 <211> LENGTH: 170
226 <212> TYPE: PRT
227 <213> ORGANISM: Homo sapien
229 <400> SEQUENCE: 13
230 Gly Leu Cys Glu Gly Lys Pro Ala Ala Leu Leu Pro Met Ser Leu Ser
231 1 5 10 15
232 Gln Pro Cys Leu Pro Val Pro Ser Val Gly Leu Thr Arg Ile Leu Pro

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233 20 25 30
 234 His Leu Tyr Leu Gly Ser Gln Lys Asp Val Leu Asn Lys Asp Leu Met
 235 35 40 45
 236 Thr Gln Asn Gly Ile Ser Tyr Val Leu Asn Ala Ser Asn Ser Cys Pro
 237 50 55 60
 238 Lys Pro Asp Phe Ile Cys Glu Ser Arg Phe Met Arg Val Pro Ile Asn
 239 65 70 75 80
 240 Asp Asn Tyr Cys Glu Lys Leu Leu Pro Trp Leu Asp Lys Ser Ile Glu
 241 85 90 95
 242 Phe Ile Asp Lys Ala Lys Leu Ser Ser Cys Gln Val Ile Val His Cys
 243 100 105 110
 244 Leu Ala Gly Ile Ser Arg Ser Ala Thr Ile Ala Ile Ala Tyr Ile Met
 245 115 120 125
 246 Lys Thr Met Gly Met Ser Ser Asp Asp Ala Tyr Arg Phe Val Lys Asp
 247 130 135 140
 248 Arg Arg Pro Ser Ile Ser Pro Asn Phe Asn Phe Leu Gly Gln Leu Leu
 249 145 150 155 160
 250 Glu Tyr Glu Arg Thr Leu Lys Leu Leu Ala
 251 165 170
 253 <210> SEQ ID NO: 14
 254 <211> LENGTH: 168
 255 <212> TYPE: PRT
 256 <213> ORGANISM: Homo sapien
 258 <400> SEQUENCE: 14
 259 Pro Ala Gln Ala Leu Pro Pro Ala Gly Ala Glu Asn Ser Asn Ser Asp
 260 1 5 10 15
 261 Pro Arg Val Pro Ile Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
 262 20 25 30
 263 Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu
 264 35 40 45
 265 Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro
 266 50 55 60
 267 Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp
 268 65 70 75 80
 269 Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe
 270 85 90 95
 271 Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln
 272 100 105 110
 273 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln
 274 115 120 125
 275 Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys Gln Arg
 276 130 135 140
 277 Arg Gly Val Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
 278 145 150 155 160
 279 Leu Glu Thr Gln Val Leu Cys His
 280 165
 282 <210> SEQ ID NO: 15
 283 <211> LENGTH: 169
 284 <212> TYPE: PRT

VERIFICATION SUMMARY

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L:13 M:270 C: Current Application Number differs, Wrong Format